

## IN THE CLAIMS

Claims 1-6, 15-16, and 19-26 are pending in this application. Please cancel claims 7-14 and 17-18 without prejudice or disclaimer, amend claims 1-2, and 15-16, and add new claims 21-26 as follows:

1. (Currently Amended) A disk-shaped information recording medium on which a user data area and a control data area are formed, and to which information is recorded or from which recorded information is produced by ~~irradiating~~ irradiation with an energy beam moving on/along a track relative to said medium,

wherein a first location is in an innermost area of the user data area and a second location ~~are located at different locations in a radial direction of the medium~~ is in an outermost area of the user data area,

wherein data concerning a maximum linear velocity at the first location (V1max) and a minimum linear velocity at the first location (V1min) ~~at said first location~~ and a maximum linear velocity at the second location (V2max) and a minimum linear velocity at the second location (V2min) ~~at said second location~~ are recorded at a predetermined ~~location on said~~ area of the disk-shaped information recording medium, and the first location and the second location ~~are set to a pair of edge portions of an area in which a predetermined control mode of the disk-shaped information recording medium can be performed~~,

~~wherein the predetermined control mode includes at least one of a kind of a method for controlling rotation of the disk-shaped information recording medium, recording power, a recording pulse and a relative moving speed of the energy beam.~~

2. (Currently Amended) A disk-shaped information recording medium according to claim 1,

wherein said predetermined ~~location on said medium~~ area lies in a control data zone in which data concerning said medium are recorded.

3. (Previously Presented) A disk-shaped information recording medium according to claim 1,

wherein at least one of undermentioned conditions is satisfied:

$r_1 < r_2$ , and

$V1_{\max} < V2_{\max}$  or

$V1_{\min} < V2_{\min}$

where  $r1$  represents a radial distance of said first location from a center of said medium and

$r2$  represents a radial distance of said second location from said center of said medium.

4. (Previously Presented) A disk-shaped information recording medium according to claim 3,

wherein conditions that  $r1 < r2$  and that  $V1_{\min}/r1 < V2_{\max}/r2$  are satisfied,

where  $r1$  represents a radial distance of said first location from a center of said medium and

$r2$  represents a radial distance of said second location from said center of said medium.

5. (Previously Presented) A disk-shaped information recording medium according to claim 3,

wherein condition that  $V1_{\max} < V2_{\min}$  is additionally satisfied.

6. (Previously Presented) A disk-shaped information recording medium according to claim 1,

wherein at least some of recording/reproducing conditions corresponding to said maximum linear velocities ( $V_{\max}$ ) and said minimum linear velocities ( $V_{\min}$ ) at said first and second locations, respectively, are recorded at said predetermined location.

- 7-14. (Canceled)

15. (Currently Amended) An information recording method of recording information on disk-shaped information recording medium, in which a user data area and a control area are formed, by ~~irradiating~~ irradiation with an energy beam moving on/along a track relative to said medium,

said method comprising the steps of:

reading using a recording medium such that data concerning a maximum linear velocity (V1max) and a minimum linear velocity (V1min) at a first location ~~on said medium~~ in an innermost area of the user data area and a maximum linear velocity (V2max) and a minimum linear velocity (V2min) at a second location ~~on said medium~~ in an outermost area of the user data area is recorded at a predetermined area; ~~;~~ ~~said first and second locations being located at different locations in a radial direction of the disk-shaped medium, and said data being recorded at a predetermined location on said medium;~~

~~the first location and the second location being set to a pair of edge portions of an area in which a predetermined control mode of the disk-shaped information recording medium can be performed; and~~

reading said data prior to recording operation of information recorded in the user data area; and

recording the information to the user data area with ~~on said medium by~~ controlling a relative speed between said medium and said energy beam, which is controlled on the basis of said data.

16. (Currently Amended) An information reproducing method of reproducing information from ~~[[an]]~~ a disk-shaped information recording medium, ~~recorded the information in which a user data area and a controlling area formed,~~ by ~~irradiating~~ irradiation with an energy beam moving on/along a track relative to said medium,

said method comprising the steps of:

reading using a recording medium such that data concerning a maximum linear velocity (V1max) and a minimum linear velocity (V1min) at a first location ~~on said medium~~ in an innermost area of the user data area and a maximum linear velocity (V2max) and a minimum linear velocity (V2min) at a second location ~~on said medium~~ in an outermost area of the user data is recorded at a predetermined area; ~~;~~ ~~said first and second locations being located at different locations on said medium, and said data being recorded at a predetermined location on said medium;~~

~~the first location and the second location being set to a pair of edge portions of an area in which a predetermined control mode of the disk-shaped information recording medium can be performed; and~~

reading said data prior to recording operation of information recorded in the user data area; and

reproducing the information recorded ~~on said medium by controlling in the user data area with~~ a relative speed between said medium and said energy beam, which is controlled on the basis of said data.

17-18. (Canceled)

19. (Previously Presented) An information recording method according to claim 15, wherein the predetermined control mode includes a recording condition for the disk-shaped information recording medium with a predetermined performance.

20. (Previously Presented) An information recording method according to claim 16, wherein the predetermined control mode includes a recording condition for the disk-shaped information recording medium with a predetermined performance.

21. (New) An information recording method, according to claim 15,  
wherein said relative speed is controlled by one of a control method selected from a group consisting of:  
a constant angular velocity (CAV) control with a rotation speed (rpm) being constant,  
a constant linear velocity (CLV) control with a linear velocity being constant,  
and  
a combination of said constant angular velocity (CAV) control and said constant linear velocity (CLV) control.

22. (New) An information recording method according to claim 15,  
wherein the linear velocities at other locations than said first and second locations are determined through linear interpolation between said minimum linear velocity (V1min) at said first location and said minimum linear velocity (V2min) at said second location and between said maximum linear velocity (V1max) at said first location and said maximum linear velocity (V2max) at said second location.

23. (New) An information recording method according to claim 15,  
wherein said information recording medium includes a reflective laver, of which thickness is gradually decreased from a radially inner side of said medium toward a radially outer side of said medium, and  
wherein a constant angular velocity (CAV) control is adopted for controlling a rotation of said medium.
24. (New) An information reproducing method, according to claim 16,  
wherein said relative speed is controlled by one of a control method selected from a group consisting of:  
a constant angular velocity (CAV) control with a rotation speed (rpm) being constant,  
a constant linear velocity (CLV) control with a linear velocity being constant,  
and  
a combination of said constant angular velocity (CAV) control and said constant linear velocity (CLV) control.
25. (New) An information reproducing method according to claim 16,  
wherein the linear velocities at other locations than said first and second locations are determined through a linear interpolation between said minimum linear velocity (V1min) at said first location and said minimum linear velocity (V2min) at said second location and between said maximum linear velocity (V1max) at said first location and said maximum linear velocity (V2max) at said second location.
26. (New) An information reproducing method according to claim 16,  
wherein said information recording medium includes a reflective laver, of which thickness is gradually decreased from a radially inner side of said medium toward a radially outer side of said medium, and  
wherein a constant angular velocity (CAV) control is adopted for controlling a rotation of said medium.